

1 a second connected to said first servers, which controls and analyzes queries about
2 said database, including a data retrieval query to retrieve data from selected ones of said
3 first servers, and a sub-data utilization query to retrieve only selected sub-data items from
said data retrieved from a database operation.

1 **50.** A database system according to claim **49**, wherein said data retrieved from
2 said database operation contains sub-data items corresponding to attributes of an Abstract
3 Data Type (ADT).

1 **51.** A database system according to claim **50**, wherein said second server
2 retrieves said sub-data items of said data from said selected ones of said first servers based
3 on location information and dictionary information concerning locations of said sub-data
4 items within said data and sub-data identifiers necessary for said queries.

1 **52.** A database system according to claim **51**, wherein said location information
2 comprises an identifier of said selected ones of said first servers having retrieved said data
3 and an address of said data within said selected ones of said first servers.

1 **53.** A database system according to claim **52**, wherein said dictionary
2 information of locations of said sub-data items within said data comprises offset values
3 representing locations of said sub-data items relative to a starting address, said sub-data
4 items being clustered within said data.--